

Transients in the Burning of Powders, by  
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FTD-TT-63-112

SLA TT-65-13673

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Speed of Burning of Solid Fuels, by B. V. Novozhilov,

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AID SIR-3437

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Investigation of Efficiency of Charges  
with Air Caps, by N. G. Novozhilov, 1A pp.  
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RUSSIAN, per, Meteorologiya i Gidrologiya,  
No 10, 1963, pp 6-33  
CSIRO/No 6984

*N. Novozhilov*

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JPRS 22018

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DEC. 63

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52-20021

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CO<sub>2</sub>-SHIELDED SPOT WELDING. [1962] 10p. 4 refs.  
Order from OTS or SLA \$1.10 62-20021

I. Novozhilov, N. M.  
II. Sokolova, A. M.

Trans. of Svarochnoe Proizvodstvo (USSR) 1956 [no. 7]  
p. 10-13.

DESCRIPTORS: \*Spot welding, \*Carbon dioxide,  
Fluxes (Fusion), Joints.

The spot welds made with this method have, compared to similar welds made with the submerged arc process, a more desirable shape as far as depth of fusion and weld reinforcement is concerned. With the CO<sub>2</sub>-shielded spot welding process sheets of greater thickness can be spot welded than with the flux process. The strength of CO<sub>2</sub>-shielded spot welds is no way inferior to that of flux-shielded spot welds. (Author)

(Metallurgy, TT, v. 9, no. 12)

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Novozhilov, N. M.  
POROSITY IN GAS-SHIELDED METAL ARC WELD-  
ING. [1962] [11]p. 7 refs.  
Order from OTS or SLA \$1.60 62-20045

I. Novozhilov, N. M.

Trans. of Svarochnoe Proizvodstvo (USSR) 1955, no. 4,  
p. 9-13.

DESCRIPTORS: \*Arc welding, Metals, Shielding,  
Gases, Porosity.

The interaction of the gases with the metal is most  
intense when the welding is carried out with consumable  
electrodes at high current densities. The principal de-  
fect in welding steel by this method is the presence of  
porosity in the weld metal which is caused by the tem-  
perature-dependent change in the solubility in the metal  
of the active diatomic gases (H<sub>2</sub>, N<sub>2</sub>, and O<sub>2</sub>) and by  
their reactions in the weld puddle with constituents in  
the metal (C, S) and with each other. Shielding at atmo-  
(Metallurgy, TT, v. 9, no. 9) (over)

Office of Technical Services

Novozhilov, N. M.

AUTOMATIC UNDER-WATER WELDING IN AN  
OXIDIZING ATMOSPHERE. [1962] [7]p. 5 refs.  
Order from OTS or SLA \$1.10 62-20048

Trans. of Svarochnoe Proizvodstvo (USSR) 1956,  
no. 2, p. 13-15.

DESCRIPTORS: \*Welding, \*Underwater, Automatic,  
Atmosphere, Oxygen.

A method for the automatic under-water welding in a  
strongly oxidizing protective atmosphere consisting of  
CO<sub>2</sub> or mixtures of oxygen with CO<sub>2</sub> or inert gases,  
has been described. In under-water welding, the in-  
creased oxidizing power of the protective atmosphere  
(more than 10 to 15 per cent oxygen) is a useful and  
necessary property for suppressing the harmful effect  
of hydrogen and for obtaining sound weld metal.  
(Metallurgy, TT, v. 9, no. 9) (over)

62-20048

I. Novozhilov, N. M.

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Dry Ice as a Source of CO<sub>2</sub> for Welding, by T. F.  
Pimenova, A. I. Mikoyan, N. M. Novozhilov, 6 pp.

RUSSIAN, per, Svaroch Proiz, No 11, 1960, pp  
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BWRA

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Sci

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Investigation of the Properties of Weld Metal  
Deposited in CO<sub>2</sub> by Sv-08GSA and Sv-08G2SA  
Electrodes, by S. M. Novozhilov, A. M. Sokolova,  
11 pp.

RUSSIAN, per, Svaroch Proiz, No 5, 1959, pp 7-11.

British Welding Res Assoc

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61-15405

Novozhilov, N. M. and Sokolova, A. M.  
THE DEVELOPMENT OF ELECTRODE WIRES FOR  
WELDING LOW CARBON AND LOW ALLOY STEELS  
IN CARBON DIOXIDE GAS (Razrabotka Elektroodnykh  
Provoloek dlya Svariki Malouglerodistykh Staley i  
Nizkolegirovannykh v Uglekislom Gaze). Jan 61 [14]p.  
13 refs. RTS 1604.  
Order from LC or SLA ml\$2.40, ph\$3.30 61-15405

Trans. of Svarochnoye Proizvodstvo (USSR) 1958,  
no. 7, p. 10-14.

Tests made on three electrode wires containing the  
strong deoxidants aluminum and titanium, did not show  
them to have any advantages over silicon manganese  
wires. Rational limits of deoxidizing element contents  
in electrode wires intended for welding rimming and  
killed low carbon steels at currents up to 500 amp  
are 0.05 to 0.12% C, 0.06 to 1.0% Si, and 1.4 to  
2.4% Mn.

(Machinery--Manufacturing, TT, v. 5, no. 7)

1. Electrodes--Materials
2. Steel--Welding
- I. Novozhilov, N. M.
- II. Sokolova, A. M.
- III. RTS-1604
- IV. Department of Scientific  
and Industrial Research  
(G. Brit.)

Office of Technical Services

Investigation of the Purity of CO<sub>2</sub> used in Gas-  
Shielded Welding, by N. M. Novozhilov, A. M. Sokolov,  
4 pp

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in a Gas Shield, by H. M. Kovoshilov.

RUSSIAN, Patent No 104,283, Feb 2, 1952.

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Low Carbon and Low Alloy Steels in Carbon  
Dioxide Gas, by N. M. Novozhilov, A. M.  
Sokolova.

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Problems Associated With the Weldability  
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**Aug 64**

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ON THE ERROR OF THE KIRCHHOFF HYPOTHESIS  
IN SHELL THEORY (O Pogreshnosti Gipotez Kirkhgofa  
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Order from OTS or SLA \$3.60

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Trans. of Prikladnaya Matematika i Mekhanika (USSR)  
1943, v. 7, no. 5, p. 331-340.

DESCRIPTORS: \*Elastic shells, Theory, Errors,  
Elasticity, Deformation, Stresses, Transformations  
(Mathematics), Differential equations, Mechanics.

For the purpose of elucidating the inaccuracies men-  
tioned in the title of this paper the authors develop a  
theory of shells independent of the Kirchhoff and Love  
hypothesis. This theory generalizes and extends the  
earlier treatments published by Basset and partly by  
Kiltchevsky. The results obtained lead to the conclu-  
(Mechanics, TT, v. 8, no. 5) (over)

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- I. Novozhilov, V.
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Rochester, N. Y.

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On the Computation of Shells Under Concentrated  
Effects, by V. V. Novosheilov, K. P. Chernykh,  
11 pp.

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V. V. Novozhilov, 15 pp.

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Some Properties of Dressed Particle Operators in  
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The Method of Functionals in the Quantum Theory of  
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pp 53-102.

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Nuclear Forces and the Scattering of  $\pi$  Mesons, by  
Yu. V. Novoshelov, 8 pp.

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A Rapid Micromethod for the Determination of  
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Compounds in the Presence of Halogens, Nitrogen,  
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The Diffusion of Antimony in Antimony Doped  
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L. I. Novozhilova, 10 pp.

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A Study of the Phosphorus Compounds in the  
Development of *Azobacter vinelandii* Using  $P^{32}$ ,  
By G. N. Zaitseva, A. N. Beloszerakiy, and L. P.  
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